

# STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE RECORD AUDIT

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<b>Operator: AMEREN ILLINOIS COMPANY</b>	Operator ID#: 32513
<b>Inspection Date(s): 5/3/2016, 5/4/2016</b>	Man Days: 2
<b>Inspection Unit: Centralia Storage</b>	
<b>Location of Audit: Centralia</b>	
<b>Exit Meeting Contact: Michael Kershaw</b>	
<b>Inspection Type: Standard Inspection - Record Audit</b>	
<b>Pipeline Safety Representative(s): Charles Gribbins</b>	
<b>Company Representative to Receive Report: Michael Fuller</b>	
<b>Company Representative's Email Address: mfuller2@ameren.com</b>	

<b>Headquarters Address Information:</b>	300 Liberty Peoria, IL 61602 Emergency Phone#: (800) 755-5000 Fax#:	
<b>Official or Mayor's Name:</b>	Ron Pate Phone#: (217) 424-6518 Email:	
<b>Inspection Contact(s)</b>	<b>Title</b>	<b>Phone No.</b>
Michael Kershaw	Supervisor Gas Storage	(217) 594-7232

Gas System Operations	Status
Gas Transporter	<b>AMEREN</b>
Miles of Main	<b>See Comment</b>
<u><b>General Comment:</b></u> 10" main 124' 2" main 1385' 4" main 6495' 6" main 2734' 8" bare steel main 1' 8" main 2'	
Confirm Operator's Potential Impact Radius Calculations	<b>See Comment</b>
<u><b>General Comment:</b></u> 10" MAOP 400# PIR 148.35 10% BUFFER 163.19 FT. 8" MAOP 400# PIR 8.625 10% BUFFER 130.93 FT.	

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6" MAOP 400# PIR 6.625 10% BUFFER 100.57 FT. 4" MAOP 400# PIR 62.10 10% BUFFER 68.31 FT. 2" MAOP 400# PIR 32.78 10% BUFFER 36.05 FT.		
Annual Report (Form 7100.2.1) reviewed for the year:		<b>Not Applicable</b>
<b><u>General Comment:</u></b> Staff reviewed the Annual report at the ICC Office.		
<b>Regulatory Reporting Records</b>		<b>Status</b>
[191.5]	Were Telephonic Notices of Incidents reported to the NRC (800-424-8802)?	<b>Not Checked</b>
<b><u>General Comment:</u></b> If any incident occurred at this location the information would be obtained at the Pawnee Training Center.		
[191.15(a)]	Was a DOT Incident Report Form F7100.2 submitted within 30 days after detection of an incident?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> No incidents occurred in the storage field that require reporting per Part 191 requirements in 2014		
[191.15(b)]	Were there any supplemental incident reports when deemed necessary?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> No incidents occurred in the storage field that require reporting per Part 191 requirements in 2014		
[191.23(a)]	Did the operator report Safety Related Conditions?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> No supplemental incidents reports were required for 2014		
[191.25]	Did the Operator file a Safety Related Condition Report within 5 working days of determination, but not later than 10 working days after discovery?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> No safety related condition reports were required in 2014.		
[192.16(c)]	Customer Notification: Has the operator notified each customer after the customer first receives gas at a particular location?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> Customer notification is not applicable as no customers are supplied by the storage field.		
<b>TEST REQUIREMENTS</b>		<b>Status</b>
[192.517(a)][192.505,192.507,192.509,192.511(c)]	Are pressure test records being maintained for piping operating above 100 psig?	<b>Satisfactory</b>

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<b><u>General Comment:</u></b>		
Staff reviewed pressure test documents that indicated that pressure test and strength test were performed as required in 2014.		
[192.517(b)][192.511,192.509,192.513]	Are pressure test records being maintained for at least 5 years on piping operating below 100 psig?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
No piping was installed in the storage field in 2014 that operates under 100 psig.		
<b>UPRATING</b>		<b>Status</b>
<b><u>Category Comment:</u></b>		
No uprating was performed in the Centralia Storage field in 2014.		
[192.555][192.555]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of 30% or more SMYS?	<b>Not Applicable</b>
[192.557][192.557]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of less than 30% SMYS?	<b>Not Applicable</b>
<b>OPERATIONS</b>		<b>Status</b>
[192.603(b)][192.605(a)]	Has the operator conducted a review of the Operations and Maintenance Manual once per yr/15 months?	<b>Not Checked</b>
<b><u>General Comment:</u></b>		
The Operations and Maintenance Manual will be reviewed at the Pawnee Training Center at a later date.		
Has the operator conducted a review of the Operator Qualification Plan once per yr/15 months?		<b>Not Checked</b>
<b><u>General Comment:</u></b>		
The operator qualification plan was not reviewed as part of this inspection. To be reviewed at the Pawnee Training Center at a later date.		
[192.603(b)][192.605(b)(3)]	Are construction records, maps, and operating history available to operating personnel?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
Staff reviewed construction records and verified records, maps and operating history at the Centralia Storage Field.		
[192.603(b)][192.605(b)(8)]	Has the operator periodically reviewed personnel's work to determine the effectiveness of normal O&M procedures when deficiencies are found?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
No deficiencies were identified in storage field procedures in 2014. Storage field personnel are included in the Ameren Quality Assessment program.		
[192.603(b)][192.605(c)(1)(i)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of unintended closure of valves or shutdowns?	<b>Not Applicable</b>

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<b><u>General Comment:</u></b> <i>No unintended closure of valves occurred in 2014.</i>		
[192.603(b)][192.605(c)(1)(ii)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of increase or decrease in pressure or flow rate outside normal operating limits?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>No increase or decrease in flows outside the normal operating limits 2014.</i>		
[192.603(b)][192.605(c)(1)(iii)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of loss of communications?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>The Operator had several losses of communications on 1-11-2014 and 1-10-2014 phone system not working, phone system back in service on 1-12-2014.</i>		
[192.603(b)][192.605(c)(1)(iv)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of operation of any safety device?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>The operator had two safety devices activated in 2014. Compressor shut down and high moisture shut down. Both shut downs were corrected and systems put back into service.</i>		
[192.603(b)][192.605(c)(1)(v)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of any other foreseeable malfunction of a component, deviation from normal operation, or personnel error which may result in a hazard to persons or property?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator did not have any problems in 2014.</i>		
[192.603(b)][192.605(c)(2)]	Does the operator maintain documentation of checking variations from normal operation after abnormal operation has ended at sufficient critical locations in the system to determine continued integrity and safe operation?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>No issues were identified after taking corrective actions.</i>		
[192.603(b)][192.605(c)(3)]	Does the operator maintain documentation of notifying responsible operator personnel when notice of an abnormal operation is received?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Ameren maintains documentation of notifications received and the corrective actions taken. Staff reviewed the following: Centralia Abnormal Operation Log for 2014.</i>		
[192.603(b)][192.605(c)(4)]	Does the operator maintain documentation for periodically	<b>Satisfactory</b>

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	reviewing the response of operator personnel to determine the effectiveness of the procedures controlling abnormal operation and taking corrective action where deficiencies are found?	
<b>General Comment:</b> <i>Staff reviewed the actions taken during periods of abnormal operations and no deficiencies were identified 2014.</i>		
[192.603(b)][192.619,192.621,192.623]	Is the operator maintaining documentation verifying their Maximum Allowable Operating Pressure(s)? (MAOP)	<b>Satisfactory</b>
<b>General Comment:</b> <i>Decatur Engineering maintains the documentation regarding the system MAOP. Maps are utilized to record the current MAOP of piping in the Storage Field. Engineering establishes the pressure at which new piping shall be tested for new installation and to ensure the current MAOP is maintained. Staff reviewed the following: Centralia Storage Field MAOP 400 psig and the Centralia Plant MAOP is 500 psig.</i>		
<b>CONTINUING SURVEILLANCE RECORDS</b>		<b>Status</b>
[192.709(c)][192.613(a)]	Has the operator reviewed continuing surveillance records for class location changes, failures, leak history, corrosion, changes in cathodic protection, and other unusual operating and maintenance conditions?	<b>Not Checked</b>
<b>General Comment:</b> <i>Class location surveys are performed by Transmission Integrity Group. These records will be reviewed during the Transmission Integrity Department audit.</i>		
<b>CLASS LOCATION CHANGE</b>		<b>Status</b>
[192.709(c)][192.609]	Does the operator maintain documentation when the class location changes for a segment of pipe operating at a hoop stress that is more than 40% SMYS?	<b>Not Applicable</b>
<b>General Comment:</b> <i>There is no piping operating at or above 40% SMSY at the Centralia Storage Field. There were not class location changes.</i>		
<b>DAMAGE PREVENTION RECORDS</b>		<b>Status</b>
<b>Category Comment:</b> <i>These records are maintained by the Belleville Damage Prevention Group and are reviewed during a separate audit. There were no damages on the storage field piping due to third party damages. Centralia Storage field did some locating and watch and protect for damage protection.</i>		
[192.709(c)][191.17(a)]	Did the operator track the number of damages per 1000 locate requests for the previous years?	<b>Satisfactory</b>
<b>General Comment:</b> <i>There were no damages due to excavation at Centralia Storage. Pipeline location is performed by contract locators. The contract locator is responsible for initiating and performing the watch and protect.</i>		
Has the number of damages increased or decreased from prior year?		<b>Not Checked</b>
[192.709(c)][192.617]	Does the operator track records of accidents due to excavation damage to ensure causes of failures are addressed to minimize the recurrence?	<b>Satisfactory</b>

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<b><u>General Comment:</u></b>		
<i>The operator does track the number of damages of which none occurred at Centralia Storage in 2014.</i>		
[192.709(c)][192.614(c)(3)]	Does the operator provide documentation pertaining to notification of excavation, marking, positive response, and the availability and use of the one call system?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>The operator does retain locates performed due to work performed at the station in the work packets. There were several locate request due the replacement of two valves.</i>		
Does the operator have a Quality Assurance Program in place for monitoring the locating and marking of facilities?		<b>Not Checked</b>
<b><u>General Comment:</u></b>		
<i>The operator does have a quality Assurance Program for locating. These records are retained by the Damage Prevention Program located at another Ameren facility. The associated records and programs are reviewed during a separate audit.</i>		
Do pipeline operators include performance measures in facility locating contracts?		<b>Not Checked</b>
<b><u>General Comment:</u></b>		
<i>The operator has performance measures in place but is not reviewed during this audit. This reviewed during a separate audit performed on the Ameren Damage Prevention program.</i>		
[IL ADM. CO.265.100(b)(1)]	Was third party damage to mains involving a release of gas reported to ICC JULIE Enforcement? <a href="http://www.icc.illinois.gov/julie/">http://www.icc.illinois.gov/julie/</a>	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		
<i>No damages due to excavation occurred on facilities at Centralia Storage that required reporting to JULIE enforcement.</i>		
Has the Operator adopted applicable section of the Common Ground Alliance Best Practices?		<b>No</b>
<b><u>General Comment:</u></b>		
<i>This is not reviewed during this inspection. This is reviewed during the Ameren Company Wide audit performed at the Ameren Pawnee Training Center.</i>		
If no, were Common Ground Alliance Best Practices discussed with Operator?		<b>No</b>
<b><u>General Comment:</u></b>		
<i>This is not reviewed during this inspection. This is reviewed during the Ameren Company Wide audit performed at the Ameren Pawnee Training Center.</i>		
<b>EMERGENCY PLANS</b>		<b>Status</b>
[192.603(b)][192.615(b)(1)]	Are supervisors, responsible for emergency action, furnished copies of the latest edition of the Emergency Plan?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		
<i>Staff verified the latest version of the emergency plan as January 25, 2016 The Storage Emergency Manual version dated January 25, 2016..</i>		
[192.603(b)][192.615(b)(2)]	Has the operator maintained documentation that the appropriate operating personnel have received training to assure they are knowledgeable of emergency procedures	<b>Satisfactory</b>

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	and that the training was effective?	
<b><u>General Comment:</u></b> <i>Staff verified that storage field personnel were provided training on the emergency plan 2-18-14 (Annual Emergency Plan and Security Plan Review). Staff verified that storage field personnel were provided training on the O&amp;M Manual. 3-24- 2014 (Gas Storage O&amp;M Change Review. 7-23-14, 12-12-14 and 12-19-14.</i>		
[192.603(b)][192.615(b)(3)]	Has the operator maintained documentation of employee activity reviews to determine whether the procedures were effectively followed in each emergency?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>The operator did not report any emergencies at this location. No reviews of employee's activities were required due to no emergencies occurring in 2014.</i>		
[192.603(b)][192.615(c)]	Has the operator maintained documentation that the operator established and maintained liaison with appropriate fire, police and other public officials?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>March 30, 2015 the operator had a face to face meeting with the Centralia Fire Department.</i>		
[192.603(b)][192.615(a)(3)]	Did the review of emergency response time intervals regarding odor/leak complaint documentation indicate adequate emergency response intervals were achieved?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>The storage field will respond to leak complaint and also the local operating center handles all leak complaints calls that may involve the storage facilities.</i>		
[192.603(b)][192.615(a)(11)]	Has the operator maintained documentation of actions that were required to be taken by a controller during an emergency?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>No actions were required by the controller due to an emergency as no conditions that met an emergency occurred at Centralia Storage. Alarms observed by Gas Control were reported and responded to by storage personnel in a timely manner in 2014. These were compressor shutdowns due to loss of commercial power and high level alarms on the discharge scrubbers.</i>		
<b>ODORIZATION OF GAS</b>		<b>Status</b>
[192.709(c)][192.625(f)]	Where required, has the operator maintained documentation of odorant concentration level testing?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Odorant concentration level testing results are performed by the local operating centers. Records are not maintained by the Storage Field. The storage field does put in odorant at the storage field that feeds into the distribution system. "Odorant Inspection Report" for 2014</i>		
[192.709(c)][192.625(e)]	Where required, has the operator maintained documentation of odorizer tank levels?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed records and verified that odorizer tank levels were maintained as required.</i>		

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The Williams Odorizer was retired and taken out of service on June 2, 2014. The new YZ Odorizer was installed and put into service on 12/22/2014.

PATROLLING & LEAKAGE SURVEY		Status
[192.709(c)][192.705]	Does the operator maintain documentation of a patrol program as required?	Satisfactory
<b>General Comment:</b> Patrolling was conducted as follows: Sub Patrol: 91-P2-S1 which is a 1 year inspection cycle conducted on 5-7-2014 Sub Patrol: 91-P2-BLU which is a two time a year inspection conducted on 5-7-14 and 10-21-2014		
[192.709(c)][192.706]	Does the operator maintain documentation of leakage survey(s) performed on a transmission pipeline?	Satisfactory
<b>General Comment:</b> The leak survey was performed on 5-30-2014 thru 6-2-2014 no leak indications were found during the leakage survey.		
ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES		Status
<b>Category Comment:</b> No abandonments were performed in the Centralia Storage field in 2014. There are no pipelines in the storage field that cross a navigable water ways.		
[192.603(b)][192.727(b)]	Did the operator maintain documentation demonstrating that each pipeline abandoned in place was disconnected from all sources and supplies of gas, and purged of gas?	Not Applicable
[192.603(b)][192.727(c)]	Did the operator maintain documentation demonstrating that each inactive pipeline that is not being maintained under this part was disconnected from all sources and supplies of gas; purged of gas?	Not Applicable
[192.603(b)][192.727(e)]	Did the operator maintain documentation when air was used for purging that a combustible mixture was not present after purging?	Not Applicable
[192.727(g)][192.727(g)]	Did the operator maintain documentation for each abandoned onshore pipeline facility that crosses over, under or through a commercially navigable waterway?	Not Applicable
<b>General Comment:</b> There is no commercially navigable waterways in the Centralia Storage Field Area.		
COMPRESSOR STATION		Status
[192.709(c)][192.731(a)]	Has the operator maintained documentation of the compressor station relief devices at a minimum of 1 per year/15 months?	Satisfactory
<b>General Comment:</b> Staff reviewed the following records: Compressor relief Valves Annual Inspection the inspections were conducted on 9/25/2014. Station ID 91-Cent-RV Two relief valves were retired and replaced with a pilot operated relief with a larger orifice to meet capacity requirements. Anderson-Greenwood 26310-235 M 13140577 full bore pilot operated relief.		
[192.709(c)][192.731(c)]	Has the operator maintained documentation compressor	Satisfactory



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	station emergency shutdown at a minimum of 1 per year/15 months?	
<b><u>General Comment:</u></b> <i>Staff reviewed Storage Field Emergency Shutdown ESD System Annual Test May 5, 2014. ESD tested all pull boxes and blew down the plant no failures noted.</i>		
[192.709(c)][192.736(c)]	Has the operator maintained documentation of the compressor stations – detection and alarms?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the following documents for 2014:</i>  <i>Storage Field Fire Detection Alarm Inspection</i> <i>Fire Detection System Six months-4/24/2014 and 10/13/2014</i>  <i>Fire Detection Alarm System</i> <i>Annual Inspection 4/24/2014</i>  <i>Work was being performed to the plant fire detection system changing out entire system and adding fire sensors and smoke sensors to the central control room. Temporary detectors and pull stations were added and each were tested.</i>  <i>Gas Detection Quarterly Calibration check:</i> <i>Quarterly calibration gas sensors and control modules system</i> <i>2/13/2014</i> <i>5/5/2014</i> <i>7/23/2014</i> <i>10/13/2014</i>  <i>Gas detection alarm system</i> <i>Annual Inspection</i> <i>Gas detection and alarm system</i> <i>2-13-2014 and 10-13-2014</i> <i>The reason for the second test was to verify operation of the new system installation.</i>		
<b>PRESSURE LIMITING AND REGULATION</b>		<b>Status</b>
<b><u>Category Comment:</u></b> <i>There are no pressure regulators at the Storage Field only relief devices on the compressors.</i>		
[192.709(c)][192.739(a)]	Is the operator inspecting and testing the pressure limiting and regulating stations at a minimum of 1 per year/15 months?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>There is no pressure control regulators located at the Centralia Storage field. Review of relief testing documentation determined the tests were performed and the reliefs were set as required in 2014.</i>		
[192.709(c)][192.743(a)]	Is the operator inspecting pressure limiting and regulating stations for adequate capacity at a minimum of 1 per year/15 months?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The compressor shutdowns are the overpressure protection at Centralia Storage during withdrawal. They are maintaining the required capacity calculation for PSV 1 located on the discharge header.</i>		
[192.709(c)][192.743(b)]	If the operator used calculations to determine sufficient	<b>Satisfactory</b>

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	capacity, were the calculation reviews documented at a minimum of 1 per year/15 months?	
<b><u>General Comment:</u></b> <i>Relief capacity data is reviewed annually in 2014 as required.</i>		
[192.709(c)][192.743(a),192.743(b),192.195(b)(2)]	Is overpressure protection provided by the supplier pipeline downstream of the take point?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>Ameren Illinois transmission system supplies natural gas to the storage facility. The field has a higher MAOP than the transmission system.</i>		
[192.709(c)][192.743(a)]	If Yes, does the operator have documentation to verify that these devices have adequate capacity?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>Ameren Illinois transmission system supplies natural gas to the storage facility. The field has a higher MAOP than the transmission system.</i>		
<b>VALVE MAINTENANCE</b>		<b>Status</b>
[192.709(c)][192.745(a),192.745(b)]	Did the operator inspect and partially operate transmission valves that might be required during any emergency at a minimum of 1 per year/15 months?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>The following emergency valves were inspected on April 12 &amp; 23, 2014</i> 91-10253862 91-10253864 91-10253865 91-10253866 91-10253867 91-10253868 91-10253871 91-10253872 91-10253873 91-10253874 91-10253876 91-10253860 91-10253861 91-10253863 91-10253869 91-10253875 91-10253877 91-10253879 91-10253880		
[192.709(c)][192.749]	Did the operator inspect and maintain vaults > 200 cubic feet at a minimum of 1 per year/15 months?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>There are no vaults in the transmission system that meets the 200 cubic foot requirements</i>		
[192.709(c)][192.179]	Are transmission line valves being installed as required of 192.179?	<b>Not Applicable</b>
<b><u>General Comment:</u></b>		

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<i>The operator has not installed any valves that required to be placed at certain distances.</i>		
[192.709(b)][192.745(b)]	Did the operator take prompt remedial action to correct any valve found inoperable, unless an alternative valve was designated?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator did not have any valves that were found to be inoperable during the inspection cycle for 2014</i>		
<b>Investigation Of Failures</b>		<b>Status</b>
[192.709(c)][192.617]	Did the operator experience accidents or failures requiring analysis?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator did not experience any accidents or failures requiring analysis in 2014.</i>		
<b>WELDING OF STEEL PIPE</b>		<b>Status</b>
[192.603(b)][192.225(b)]	Does the operator have documentation for their qualified welding procedure?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the qualified welding procedure used at the Centralia Storage Field for project pipe. Welding Procedure ENE-Ameren-002 Rev 2 Weld: S6070. Process/Code SMAW-/API 1104 20th Edition API 5L grades or greater than X42 thru X60, ASTM Grade Y-42 thru Y-60</i>  <i>Qualified Welding procedures are maintained in the Ameren O&amp;M.</i>		
[192.603(b)][192.227, 192.229]	Does the operator have documentation of welder qualification documentation as required?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Initial Multi-Qualification Welder Report, Gavin Brandon KS Energy, 7-02-2014</i>  <i>2014 Annual Welder Re-Qualification Robert Crabtree KS Energy. 5-5-2014</i>		
[192.807]	Does the operator have documentation of welder OQ records?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the Operator Qualification for Robert Crabtree and Gavin Brandon</i>		
[192.709][192.243(b)(2)]	Does the operator have documentation of NDT personnel qualification as required?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the NDT qualification for the following person; Operator Qualification &amp; Employee Certification Larry Scherer JANX Task No. CT08</i>		
[192.709][192.243(f)]	Does the operator have documentation of NDT testing performed?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		

# STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE RECORD AUDIT

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Staff reviewed the weld test report and film for NDT testing performed in 2014, there were no cut ou's or failures found during the Non Destructive Testing of the welds.

CORROSION CONTROL RECORDS		Status
[192.491(a)][192.491(a)]	Has the operator maintained maps or records of cathodically protected piping, cathodic protection facilities, galvanic anodes, and neighboring structures bonded to the cathodic protection system	Satisfactory
<b>General Comment:</b> Review of pipe to soils performed in 2014 indicates adequate levels of protection were being maintained. Potential were above -1.0 volts.		
[192.491][192.459]	Has the operator maintained documentation of examination when buried pipe was exposed?	Satisfactory
<b>General Comment:</b> Staff reviewed buried pipe examination reports filled out during construction projects. Several issues were reported 2014, with corrosion indications being found under the pipe wrap on two sections of pipe.		
[192.491][192.465(a)]	Has the operator maintained documentation of annual pipe-to-soil monitoring performed at a minimum of 1 per yr/15 months and/or isolated services or short sections of main less than 100 feet at a minimum of 10% annually?	Satisfactory
<b>General Comment:</b> Staff reviewed 34 pipe-to-soil readings for the storage area, readings all were found to be in compliance with -.85 volt criteria. 23 well and plant locations were checked all readings were found to be above the -.85 volt criterial.  No piping within the storage field is monitored on a ten year cycle.		
[192.491][192.465(b)]	Has the operator maintained documentation of rectifier or other impressed current power sources inspections at a minimum of 6 per year/ 2 1/2 months?	Satisfactory
<b>General Comment:</b> Records where verified indicating that the rectifier were inspected as required by this section. At the Centralia storage field they have been inspecting the rectifiers on a monthly basis until September 2014 at which time the rectifier was shut down due to working on the pipe in the station and December 2014 this reading was entered into the new GCAM system.		
[192.491][192.465(c)]	Has the operator maintained documentation of each critical interference bond, reverse current switch, diode, etc. inspections at a minimum of 6 per year/ 2 1/2 months and/or non-critical interference bond inspections at a minimum of 1 per year/15 months?	Not Applicable
<b>General Comment:</b> There are no critical bonds or non-critical on the transmission system.		
[192.491][192.465(d)]	Has the operator taken prompt remedial actions to correct any deficiencies indicated by the monitoring?	Not Applicable
<b>General Comment:</b> No corrective actions were required due to the cathodic survey with no low reading being indicated.		

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[192.491][192.465(e)]	Has the operator maintained documentation of unprotected pipeline surveys, inspections, or tests at a minimum of 3 years/39 months?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>There are no unprotected pipelines in the Centralia Storage Field.</i>		
[192.491][192.467(a),192.467(c),192.467(d)]	Has the operator maintained documentation of inspections or tests for electrical isolation including casings?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>There are three casings in the storage field Gathering system RR Crossing, Hazel Copple RR Crossing, Vent under RR near Perrine all reading were above the .85 volt criteria.</i>		
[192.491][192.469]	Does the operator have a sufficient number of test stations or other contact points for electrical measurement to determine the adequacy of cathodic protection?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>A sufficient number of test points are present at the Centralia Storage Field.</i>		
[192.491][192.471]	Has the operator maintained documentation of corrective actions taken when a test lead is no longer electrically conductive?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>No test points were identified needing corrective action.</i>		
[192.491][192.473(b)]	Has the operator maintained documentation of inspections or tests to assure their cathodic protection system is not affecting adjacent underground metallic structures?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The operator does not have any adjacent underground metallic structures in the storage area.</i>		
[192.491][192.475(a)]	Has the operator maintained documentation of investigations or steps taken to minimize internal corrosion due to transportation of corrosive gas?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>The Centralia Storage does monitor internal corrosion using an ER Probe, staff reviewed ER Probe Data sheet</i>  <i>The operator performs inspections for internal corrosion using a corrosion probe on the inlet piping to the compressor station from the storage field. Ameren also performs annual gas and water analysis.</i>  <i>There has been no leakage at Centralia storage due to internal corrosion and produces minimal quantities of liquids during a withdrawal season. The corrosion department maintains the results of the water and gas sampling documentation.</i>		
[192.491][192.475(b)]	Has the operator maintained documentation of internal surface inspections performed when pipe is removed for any reason?	<b>Satisfactory</b>
<b><u>General Comment:</u></b>		

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<i>Staff reviewed Buried Pipe Examination report and noted that internal corrosion pipe conditions were checked when pipe was removed.</i>		
[192.491]	Has the operator maintained documentation of written procedures supported by as-built drawings or other construction records?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed as-built drawings of new installed pipe in 2014 in the construction work pockets.</i>		
[192.491][192.477]	Has the operator maintained documentation of internal corrosion coupon monitoring at a minimum of 2 per year/ 7 1/2 months?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>The Centralia Storage field does not use internal corrosion coupon for monitoring they use an ER Probe for monitoring internal corrosion situations.</i>		
[192.491][192.479]	Has the operator maintained documentation of corrective action where atmospheric corrosion was discovered?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Ameren has a waiver to conduct Atmospheric corrosion during the leak survey cycle. No issues were identified during the 2014 atmospheric corrosion survey.</i>		
[192.491][192.481]	Has the operator maintained documentation of atmospheric corrosion control monitoring at a minimum of 1 per 3 years/ 39 months?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Ameren has a waiver to conduct Atmospheric corrosion during the leak survey cycle. No issues were identified during the 2014 atmospheric corrosion survey.</i>		
[192.491][192.483(a),192.483(b),192.483(c)]	Has the operator maintained documentation demonstrating that pipe removed due to external corrosion has been repaired or replaced with pipe that was coated and cathodically protected?	<b>Not Applicable</b>
<b><u>General Comment:</u></b> <i>No piping was removed due to external corrosion in 2014.</i>		
<b>TRAINING - 83 IL ADM. CODE 520</b>		<b>Status</b>
[520.10(a) (1)]	Has the operator maintained documentation demonstrating that personnel have received adequate training?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the Ameren Operator Qualification Employee Summary Sheet to verify the training requirements</i>		
[520.10(a) (2)]	Do training records include verbal instruction and/or on the job training for each job classification?	<b>Satisfactory</b>
<b><u>General Comment:</u></b> <i>Staff reviewed the following Operator Qualification summary sheets for the employees at Centralia Storage field. The Operator Qualification summary's contained, Work performance, Oral Performance and Performance for each employee.</i>		

# STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE RECORD AUDIT

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Employees Gary Nicholson and Mike Kershaw.

[520.10(b)]	Has the municipal operator maintained documentation demonstrating that personnel have received adequate training?	<b>Not Applicable</b>
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**General Comment:**

*The municipal training requirements do not apply to this operator.*

[520.10(a)(5)]	Are procedures periodically updated to include new materials, new methods of operation and installation, and changes in general procedures?	<b>Satisfactory</b>
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**General Comment:**

*Staff reviewed sections of the Operation and maintenance manual.*

# STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE

## RECORD AUDIT

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